

CLAIMS

I claim:

1. In an integrated computer telephony system including a call routing system, a method for routing a call based on the identity of an originating source of said call, comprising the steps of:
 - maintaining a plurality of routing lists, each said routing lists being associated with at least one originating source and comprising a plurality of directory numbers;
 - receiving said call from said originating source;
 - selecting a routing list associated with said originating source from said plurality of routing lists; and
 - directing said call according to said routing list.
2. The method of claim 1, wherein said selecting a routing list step further comprises the steps of:
 - detecting a directory number of said originating source;
 - retrieving an associated routing list for said directory number; and
 - retrieving a default routing list if said associated routing list does not exist.

3. The method of claim 1, wherein said selecting a routing list step further comprises the steps of:

requesting said originating source to provide an identification code;

5 receiving said identification code;

retrieving an associated routing list for said identification code; and

retrieving a default routing list if said associated routing list does not exist.

10 4. The method of claim 1, wherein said integrated computer telephony system provides a calling line identification service and said selecting a routing list step further comprises the steps of:

receiving a calling line identification for said originating party;

15 retrieving an associated routing list for said calling line identification; and

retrieving a default routing list if said associated routing list does not exist.

5. In a program module responsive to receiving communications for a personal number subscriber, a method for routing a communication to said subscriber, comprising the steps of:

maintaining plurality of routing lists, each said routing
5 list being associated with at least one originating party and at least one personal number and comprising a plurality of directory numbers;

receiving a communication directed to a personal number from an originating party;

selecting a routing list associated with said personal
10 number and said originating party; and

routing said call in accordance with said routing list.

6. The method of claim 5, wherein said selecting a routing list step further comprises the steps of:

detecting a directory number for said originating party;
15 retrieving an associated routing list for said directory number; and

retrieving a default routing list if said associated routing list does not exist.

7. The method of claim 5, wherein said selecting a
20 routing list step further comprises the steps of:

requesting said originating party to enter an identification code;

receiving said identification code;

retrieving an associated routing list for said
25 identification code and said personal number; and

retrieving a default routing list if said associated routing list does not exist.

8. The method of claim 7, wherein said selecting a routing list step further comprises selecting said routing list from a group of routing lists identified for said originating party based on the day of the week said communication is received.

5 9. The method of claim 7, wherein said selecting a routing list step further comprises selecting said routing list from a group of routing lists identified for said originating party based on time of day said communication is received.

10 10. The method of claim 7, wherein said selecting a routing list step further comprises selecting said routing list from a group of routing lists identified for said originating party based on the day of the week and the time of the day said communication is received.

11. A computer system for routing calls for a personal number subscriber based on the CLID of an originator, comprising:

a processing unit;

5 a memory storage device operative to store a plurality of routing lists for said personal number subscriber, each said routing list comprising a plurality of directory numbers;

a receiving interface device coupled to said processing unit for receiving calls;

10 a transmitting interface device coupled to said processing unit for placing calls;

said processing unit being operative to:

receive a call on said interface device, said call being directed to said personal number subscriber;

detect a CLID for said originating party;

15 retrieve an associated routing list from said memory storage device for said CLID;

retrieve a default routing list from said memory storage device if said associated routing list does not exist; and

20 direct said call setup request in accordance with said routing list.

12. The computer system of claim 11, wherein said processing unit directs said call setup request by:

(a) selecting a first directory number from said routing list;

5 (b) routing said call to said first directory number;

(c) receiving communication disposition information from said first directory number; and

(d) if said communication disposition indicates said routing step failed, selecting a next directory number from said routing list
10 and repeating steps (b)-(d) at said next directory number.

13. A computer-readable medium on which is stored a computer program for selecting a routing list based on an identifying criteria, and a data file containing a plurality of routing lists for a called party, said computer program comprising instructions which, when
5 executed by a computer, perform the steps of:

receiving a communication for said called party;

obtaining said identifying criteria;

retrieving a routing list from said data file based on said
identifying criteria; and

10 directing said communication in accordance with said
routing list.

14. The computer-readable medium recited in claim 13,
wherein said identifying criteria comprises a CLID message and said step
of obtaining an identifying criteria further comprises receiving said
15 CLID message.

15. The computer-readable medium recited in Claim 13,
wherein said identifying criteria comprises a DTMF code sequence and
said step of obtaining an identifying criteria further comprises detecting
said DTMF code sequences.

16. The computer-readable medium recited in Claim 13, wherein said identifying criteria comprises a DTMF code sequence and said step of obtaining an identifying criteria further comprises the steps of:

5 providing keypad menu selection options to said called party; and

 receiving a DTMF signal corresponding to a keypad menu selection from said called party.